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P21480.A02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Arne HOLMGREN et al.

Group Art Unit : Unknown

Serial No : 09/926,218  
(National Stage of PCT/JP00/02076)

Examiner : Unknown

Filed : September 25, 2001  
(International Filing Date March 31, 2000)

For : SUBSTRATE FOR THIOREDOXIN REDUCTASE

**INFORMATION DISCLOSURE STATEMENT**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants hereby bring the following information to the attention of the Examiner in charge of the above-identified application, which includes information cited and discussed in the specification, and in the International Search Report, the Written Opinion and the International Preliminary Examination Report issued in connection with counterpart International Application No. PCT/JP00/02076. Copies of the International Search Report in English and Japanese, the Written Opinion in Japanese, and the International Preliminary Examination Report in Japanese were submitted when entering the national stage on September 25, 2001, and an English language translation of the International Preliminary Examination Report is attached hereto.

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U.S. Patent No. 4,618,669;

U.S. Patent No. 4,730,053;

JP 2-38591, accompanied by family member U.S. Patent No. 4,418,069;

JP 7-233056, accompanied by an English language abstract and English language translation;

Armin MULLER et al., "A Novel Biologically Active Seleno-Organic Compound-I: Gluthathione Peroxidase-Like Activity in Vitro and Antioxidant Capacity of PZ 51 (Ebselen)", Biochemical Pharmacology, Vol. 33, No. 20, pp. 3235-3239 (1984);

Mark P. MATTSON et al., "Amyloid Ox-Tox Transducers", Nature, Vol. 382, pp. 674-675 (1996);

David M. HOCKENBERY et al., "Bcl-2 Functions in an Antioxidant Pathway to Prevent Apoptosis", Cell, Vol. 75, pp. 241-251 (1993);

Frank J.T. STAAL et al., "Intracellular Thiols Regulate Activation of Nuclear Factor kB and Transcription of Human Immunodeficiency Virus", Proc. Natl. Acad. Sci. USA, Vol. 87, pp. 9943-9947 (1990);

Takuma HAYASHI et al., "Oxidoreductive Regulation of Nuclear Factor kB: Involvement of A Cellular Reducing Catalyst Thioredoxin", The Journal of Biological Chemistry, Vol. 268, No. 15, pp. 11380-11388 (1993); and

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Gavin E. ARTEEL et al., "Function of Thioredoxin Reductase as a Peroxynitrite Reductase Using Selenocystine or Ebselen", Chem. Res. Toxicol., Vol. 12, No. 3, pp. 264-269 (1999).

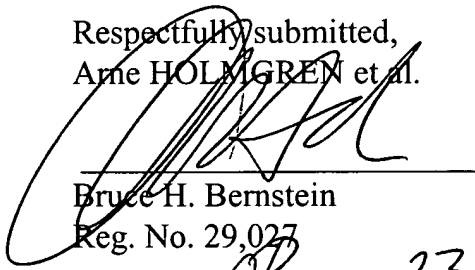
Copies of the above-noted documents are enclosed, except for the previously submitted documents, together with a duly completed Form PTO-1449. The Examiner is accordingly requested to consider each of these documents, and to make them of record in this application by initialing in the appropriate spaces on the Form PTO-1449. Applicants respectfully request that the Examiner include a copy of the initialed Form PTO-1449 with the next communication from the U.S. Patent and Trademark Office.

Applicants respectfully submit that a fee is not required for consideration of this disclosure statement. However, if any fee is necessary, this is authorization to charge Deposit Account No. 19-0089 any required fee.

Should there be any questions, the Examiner is invited to contact the undersigned at the below listed telephone number.

January 28, 2002  
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Respectfully submitted,  
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